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# Operation Manual

High power CD player with FM/AM tuner

# DEH-1550
# DEH-1550B

English
Español
Português (B)
中文
العربية

SUPER TUNER III D

# Contents

*Thank you* for buying this Pioneer product.

Please read through these operating instructions so you will know how to operate your model properly. *After you have finished reading the instructions, put them away in a safe place for future reference.*


**01 Before You Start**

About this manual 3
Precautions 3
Protecting your unit from theft 3
- Removing the front panel 3
- Attaching the front panel 3

**02 What's What**

Head unit 4

**03 Power ON/OFF**

Turning the unit on 5
Selecting a source 5
Turning the unit off 5

**04 Tuner**

Listening to the radio 6
Storing and recalling broadcast frequencies 6
Tuning in strong signals 7
Storing the strongest broadcast frequencies 7

**05 Built-in CD Player**

Playing a CD 8
Playing tracks in a random order 8
Repeating play 8
Pausing CD playback 9

**06 Audio Adjustments**

Introduction of audio adjustments 10
Using balance adjustment 10
Using the equalizer 10
- Recalling equalizer curves 10
- Adjusting equalizer curves 11
- Fine adjusting equalizer curve 11

Adjusting loudness 12
Front image enhancer (F.I.E.) 12
Adjusting source levels 12

**07 Initial Settings**

Adjusting initial settings 14
Setting the clock 14
Setting the FM tuning step 14
Setting the AM tuning step 14

**Additional Information**

Understanding built-in CD player error messages 15
Turning the clock display on or off 15
CD player and care 15
CD-R/CD-RW discs 16
Specifications 17

## About this manual

This unit features a number of sophisticated functions ensuring superior reception and operation. All the functions have been designed for the easiest possible use, but many are not self-explanatory. This operation manual will help you benefit fully from this product's potential and to maximize your listening enjoyment.

We recommend that you familiarize yourself with the functions and their operation by reading through the manual before you begin using this unit. It is especially important that you read and observe precautions on this page and in other sections. [■]

## Precautions

**CAUTION:**
**USE OF CONTROL OR ADJUSTMENT OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.**

**CAUTION:**
**THE USE OF OPTICAL INSTRUMENTS WITH THIS PRODUCT WILL INCREASE EYE HAZARD.**

- Keep this manual handy as a reference for operating procedures and precautions.
- Always keep the volume low enough so you can hear sounds outside of the car.
- Protect this product from moisture.
- If the battery is disconnected or discharged, the preset memory will be erased and must be reprogrammed.
- If this unit does not operate properly, contact your dealer or nearest authorized Pioneer Service Station. [■]

## Protecting your unit from theft

The front panel can be detached from the head unit and stored in the protective case provided to discourage theft.

**Important**

- Never use force or grip the display and the buttons tightly when removing or attaching.
- Avoid subjecting the front panel to excessive shocks.
- Keep the front panel out of direct sunlight and high temperatures.

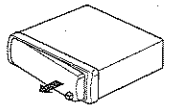
### Removing the front panel

**1 Press DETACH to release the front panel.**

Press **DETACH** and the right side of the panel is released from the head unit.

**2 Grab the front panel and remove.**

Grab the right side of the front panel and pull away to the left. The front panel will be detached from the head unit.

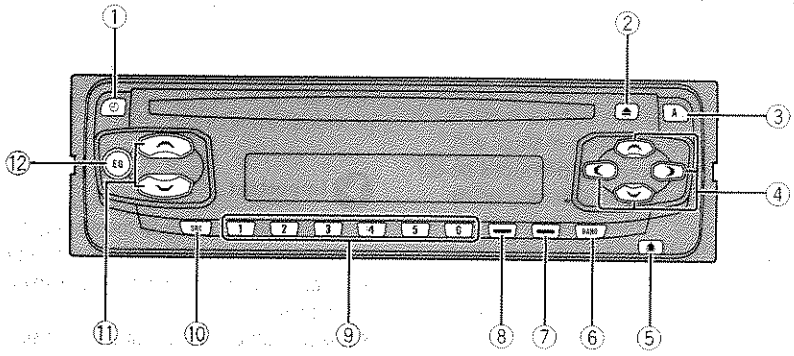


**3 Put the front panel into the protective case provided for safe keeping.**

### Attaching the front panel

**1 Place the front panel flat against the head unit.**

**2 Press the front panel into the face of the head unit until it is firmly seated.** [■]




## Head unit

① **CLOCK button**
Press to change to the clock display.

② **EJECT button**
You can eject a CD by pressing **EJECT**.

③ **AUDIO button**
Press to select various sound quality controls.

④ **▲/▼/◄/► buttons**
Press to do manual seek tuning, fast forward, reverse and track search controls. Also used for controlling functions.

⑤ **DETACH button**
Press **DETACH** to release the front panel.

⑥ **BAND button**
Press to select among three FM and one AM bands and cancel the control mode of functions.

⑦ **LOUDNESS button**
Press to turn loudness on or off.

⑧ **LOCAL/BSM button**
Press to turn local function on or off.
Press and hold to turn BSM function on or off.

⑨ **1–6 buttons**
Press for preset tuning.

⑩ **SOURCE button**
This unit is turned on by selecting a source. Press to cycle through all of the available sources.

⑪ **VOLUME**
Press to increase or decrease the volume.

⑫ **EQ button**
Press to select various equalizer curves. ■

## Turning the unit on

● **Press SOURCE to turn the unit on.**

When you select a source the unit is turned on.

## Selecting a source

You can select a source you want to listen to. To switch to the built-in CD player, load a disc in this unit (refer to page 8).

● **Press SOURCE to select a source.**

Press **SOURCE** repeatedly to switch between the following sources.

**Built-in CD player—Tuner**

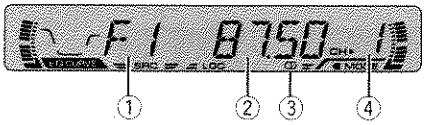
**Notes**

- When no disc has been set in the unit, the source will not switch to the built-in CD player.
- When this unit's blue/white lead is connected to the car's auto antenna relay control terminal, the car's antenna extends when this unit's source is turned on. To retract the antenna, turn the source off.

## Turning the unit off

● **Press SOURCE and hold until the unit turns off.**

## Listening to the radio




**Important**

If you are using this unit in North, Central or South America, reset the AM tuning step (see *Setting the AM tuning step* on page 14).

① **Band indicator**
Shows which band the radio is tuned to, AM or FM.

② **Frequency indicator**
Shows to which frequency the tuner is tuned.

③ **Stereo (⊙) indicator**
Shows that the frequency selected is being broadcast in stereo.

④ **Preset number indicator**
Shows what preset has been selected.

**1 Press SOURCE to select the tuner.**

**2 Use VOLUME to adjust the sound level.**
When you press **VOLUME** up/+, the volume is raised and when pressed down/–, the volume is lowered.

**3 Press BAND to select a band.**
Press **BAND** until the desired band is displayed, **F1**, **F2**, **F3** for FM or **AM**.

**4 To perform manual tuning, press ◄ or ► with quick presses.**
The frequencies move up or down step by step.

**5 To perform seek tuning, press and hold ◄ or ► for about one second and release.**
The tuner will scan the frequencies until a broadcast strong enough for good reception is found.

- You can cancel seek tuning by pressing either ◄ or ► with a quick press.
- If you press and hold ◄ or ► you can skip broadcasting stations. Seek tuning starts as soon as you release the buttons.

**Note**

When the frequency selected is being broadcast in stereo the stereo (⊙) indicator will light.

## Storing and recalling broadcast frequencies

If you press any of the preset tuning buttons **1–6** you can easily store up to six broadcast frequencies for later recall with the touch of a button.

**● When you find a frequency that you want to store in memory press a preset tuning button 1–6 and hold until the preset number stops flashing.**
The number you have pressed will flash in the preset number indicator and then remain lit. The selected radio station frequency has been stored in memory.
The next time you press the same preset tuning button **1–6** the radio station frequency is recalled from memory.

**Notes**

- Up to 18 FM stations, 6 for each of the three FM bands, and 6 AM stations can be stored in memory.

- You can also use ▲ and ▼ to recall radio station frequencies assigned to preset tuning buttons **1–6**. (*)

**Note**

Storing broadcast frequencies with BSM may replace broadcast frequencies you have saved using **1–6**. (*)

## Tuning in strong signals

Local seek tuning lets you tune in only those radio stations with sufficiently strong signals for good reception.

**1 Press LOCAL/BSM to turn local seek tuning on.**

**LOCAL** appears in the display.

**2 When you want to return to normal seek tuning, press LOCAL/BSM to turn local seek tuning off.** (*)

## Storing the strongest broadcast frequencies

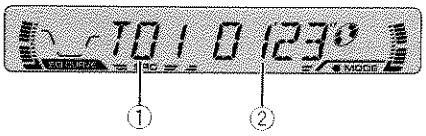
BSM (best stations memory) lets you automatically store the six strongest broadcast frequencies under preset tuning buttons **1–6** and once stored there you can tune in to those frequencies with the touch of a button.

**● Press LOCAL/BSM and hold until the BSM turns on.**

**BSM** begins to flash. While **BSM** is flashing the six strongest broadcast frequencies will be stored under preset tuning buttons **1–6** in order of their signal strength. When finished, **BSM** stops flashing.

■ To cancel the storage process, press **LOCAL/BSM**.

## Playing a CD




① **Track number indicator**
Shows the track currently playing.

② **Play time indicator**
Shows the elapsed playing time of the current track.

**1 Insert a CD into the CD loading slot.**
Playback will automatically start.

CD loading slot

- You can eject a CD by pressing **EJECT**.

**2 After a CD has been inserted, press SOURCE to select the built-in CD player.**

**3 Use VOLUME to adjust the sound level.**
When you press **VOLUME** up/+, the volume is raised and when pressed down/–, the volume is lowered.

**4 To perform fast forward or reverse, press and hold ◄ or ►.**

**5 To skip back or forward to another track, press ◄ or ►.**
Pressing ► skips to the start of the next track. Pressing ◄ once skips to the start of the current track. Pressing again will skip to the previous track.

**Notes**

- The built-in CD player plays one, standard, 12-cm or 8-cm (single) CD at a time. Do not use an adapter when playing 8-cm CDs.
- Do not insert anything other than a CD into the CD loading slot.
- If you cannot insert a disc completely or if after you insert a disc the disc does not play, check that the label side of the disc is up. Press **EJECT** to eject the disc, and check the disc for damage before inserting the disc again.
- If the built-in CD player does not operate properly, an error message such as **ERROR-11** may be displayed. Refer to *Understanding built-in CD player error messages* on page 15. ▣

## Playing tracks in a random order

Random play lets you play back tracks on the CD in a random order.

**1 Press 4 to turn random play on.**
**RDM** appears in the display. Tracks will play in a random order.

**2 Press 4 to turn random play off.**
Tracks will continue to play in order. ▣

## Repeating play

Repeat play lets you hear the same track over again.

**1 Press 5 to turn repeat play on.**
**RPT** appears in the display. The track currently playing will play and then repeat.

**2 Press 5 to turn repeat play off.**
The track currently playing will continue to play and then play the next track.

**Note**

If you perform track search or fast forward/reverse, repeat play is automatically cancelled.

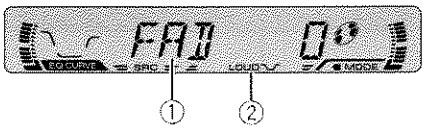
## Pausing CD playback

Pause lets you temporarily stop playback of the CD.

**1 Press 6 to turn pause on.**
**PAUSE** appears in the display. Play of the current track pauses.

**2 Press 6 to turn pause off.**
Play will resume at the same point that you turned pause on.

## Introduction of audio adjustments




① **Audio display**
Shows the audio adjustments status.

② **LOUD indicator**
Appears in the display when loudness is turned on.

● **Press AUDIO to display the audio function names.**
Press **AUDIO** repeatedly to switch between the following audio functions:
**FAD** (balance adjustment)—**EQ-L** (equalizer)—**LOUD** (loudness)—**FIE** (front image enhancer)—**SLA** (source level adjustment)
- When selecting the FM tuner as the source, you cannot switch to **SLA**.
- To return to the display of each source, press **BAND**.

**Note**
If you do not operate the audio function within about 30 seconds, the display is automatically returned to the source display. ▣

## Using balance adjustment

You can select a fader/balance setting that provides an ideal listening environment in all occupied seats.

**1 Press AUDIO to select FAD.**
Press **AUDIO** until **FAD** appears in the display.
- If the balance setting has been previously adjusted, **BAL** will be displayed.

**2 Press ▲ or ▼ to adjust front/rear speaker balance.**
Each press of ▲ or ▼ moves the front/rear speaker balance towards the front or the rear. **FAD F15** – **FAD R15** is displayed as the front/rear speaker balance moves from front to rear.
- **FAD 0** is the proper setting when only two speakers are used.

**3 Press ◄ or ► to adjust left/right speaker balance.**
When you press ◄ or ►, **BAL 0** is displayed. Each press of ◄ or ► moves the left/right speaker balance towards the left or the right. **BAL L9** – **BAL R9** is displayed as the left/right speaker balance moves from left to right. ▣

## Using the equalizer

The equalizer lets you adjust the equalization to match car interior acoustic characteristics as desired.

### Recalling equalizer curves

There are six stored equalizer curves which you can easily recall at any time. Here is a list of the equalizer curves:

| Display | Equalizer curve |
|---|---|
| SPR-BASS | Super bass |
| POWERFUL | Powerful |
| NATURAL | Natural |
| VOCAL | Vocal |
| CUSTOM | Custom |
| EQ FLAT | Flat |

- **CUSTOM** is an adjusted equalizer curve that you create.
- When **EQ FLAT** is selected no supplement or correction is made to the sound. This is useful to check the effect of the equalizer curves by switching alternatively between **EQ FLAT** and a set equalizer curve.

**● Press EQ to select the equalizer.**
Press **EQ** repeatedly to switch between the following equalizers:
**SPR-BASS—POWERFUL—NATURAL—VOCAL—CUSTOM—EQ FLAT**

## Adjusting equalizer curves

You can adjust the currently selected equalizer curve setting as desired. Adjusted equalizer curve settings are memorized in **CUSTOM**.

**1 Press AUDIO to select the equalizer curve adjustment.**
Press **AUDIO** until **EQ-L** appears in the display.
▪ If the equalizer band has been previously adjusted, the band of that previously selected will be displayed instead of **EQ-L**.

**2 Press ◀ or ▶ to select the equalizer band to adjust.**
Each press of ◀ or ▶ selects equalizer bands in the following order:
**EQ-L** (low)—**EQ-M** (mid)—**EQ-H** (high)

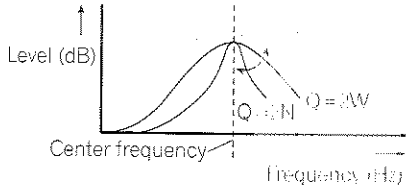
**3 Press ▲ or ▼ to adjust the level of the equalizer band.**
Each press of ▲ or ▼ increases or decreases the level of the equalization band.
**+6** – **–6** is displayed as the level is increased or decreased.
▪ You can then select another band and adjust the level.

**Note**

If you make adjustments when a curve other than **CUSTOM** is selected, the newly adjusted curve will replace the previous curve. Then a new curve with **CUSTOM** appears on the display while selecting the equalizer curve.

## Fine adjusting equalizer curve

You can adjust the center frequency and the Q factor (curve characteristics) of each currently selected curve band (**EQ-L**/**EQ-M**/**EQ-H**).




**1 Press AUDIO and hold until frequency and the Q factor (e.g., F- 80 Q 1W) appears in the display.**

**2 Press AUDIO to select the desired band for adjustment.**
Low—Mid—High

**3 Press ◀ or ▶ to select the desired frequency.**
Press ◀ or ▶ until the desired frequency appears in the display.
Low: **40—80—100—160** (Hz)
Mid: **200—500—1k—2k** (Hz)
High: **3k—8k—10k—12k** (Hz)

**4 Press ▲ or ▼ to select the desired Q factor.**
Press ▲ or ▼ until the desired Q factor appears in the display.
**2N—1N—1W—2W**

**Note**

If you make adjustments when a curve other than **CUSTOM** is selected, the newly adjusted curve will replace the previous curve. Then a new curve with **CUSTOM** appears on the display while selecting the equalizer curve.

## Adjusting loudness

Loudness compensates for deficiencies in the low- and high-sound ranges at low volume.

**1 Press AUDIO to select LOUD.**

Press **AUDIO** until **LOUD** appears in the display.

**2 Press ▲ to turn loudness on.**

**LOUD** indicator is displayed.

- To turn loudness off, press ▼.

**3 Press ◀ or ▶ to select a desired level.**

Each press of ◀ or ▶ selects level in the following order:

**LOW** (low)—**MID** (mid)—**HI** (high)

**Note**

You can also turn loudness on or off by pressing **LOUDNESS**.

## Front image enhancer (F.I.E.)

The F.I.E. (Front Image Enhancer) function is a simple method of enhancing front imaging by cutting mid- and high-range frequency output from the rear speakers, limiting their output to low-range frequencies. You can select the frequency you want to cut.

**Precaution**

When the F.I.E. function is deactivated, the rear speakers output sound of all frequencies, not just bass sounds. Reduce the volume before disengaging F.I.E. to prevent a sudden increase in volume.

**1 Press AUDIO to select FIE.**

Press **AUDIO** until **FIE** appears in the display.

**2 Press ▲ to turn F.I.E. on.**

- To turn F.I.E. off, press ▼.

**3 Press ◀ or ▶ to select a desired frequency.**

Each press of ◀ or ▶ selects frequency in the following order:

**100**—**160**—**250** (Hz)

**Notes**

- After turning the F.I.E. function on, use the balance adjustment (refer to page 10) and adjust front and rear speaker volume levels until they are balanced.
- Turn the F.I.E. function off when using a 2-speaker system.

## Adjusting source levels

SLA (source level adjustment) lets you adjust the volume level of each source to prevent radical changes in volume when switching between sources.

- Settings are based on the volume level of the FM tuner, which remains unchanged.

**1 Compare the FM tuner volume level with the level of the source you wish to adjust (e.g., built-in CD player).**

**2 Press AUDIO to select SLA.**

Press **AUDIO** until SLA appears in the display.

**3 Press ▲ or ▼ to adjust the source volume.**

Each press of ▲ or ▼ increases or decreases the source volume.

**SLA +4** – **SLA –4** is displayed as the source volume is increased or decreased.

**Notes**

- Since the FM tuner volume is the control, it is not possible to apply source level adjustments to the FM tuner.
- The AM tuner volume level can also be adjusted with source level adjustments.

## Adjusting initial settings

Initial settings lets you perform initial set up of different settings for this unit.

**1 Press SOURCE and hold until the unit turns off.**

**2 Press AUDIO and hold until clock appears in the display.**
Press **AUDIO** repeatedly to switch between the following settings:
Clock—**FM 100** (FM tuning step)—**AM 9** (AM tuning step)
Use the following instructions to operate each particular setting.

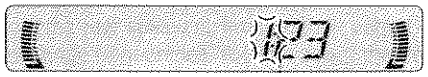
- To cancel initial settings, press **BAND**.
- You can also cancel initial settings by holding down **AUDIO** until the unit turns off.

## Setting the clock

Use these instructions to set the clock.

**1 Press AUDIO to select clock.**
Press **AUDIO** repeatedly until clock appears in the display.

**2 Press ◄ or ► to select the segment of the clock display you wish to set.**
Pressing ◄ or ► will select one segment of the clock display:
Hour—Minute
As you select segments of the clock display the segment selected will blink.



**3 Press ▲ or ▼ to set the clock.**
Pressing ▲ will increase the selected hour or minute. Pressing ▼ will decrease the selected hour or minute.

## Setting the FM tuning step

The FM tuning step employed by seek tuning can be switched between 100 kHz, the preset step, and 50 kHz.

**1 Press AUDIO to select FM 100.**
Press **AUDIO** repeatedly until **FM 100** appears in the display.

**2 Press ◄ or ► to select the FM tuning step.**
Pressing ◄ or ► will switch the FM tuning step between 100 kHz and 50 kHz. The selected FM tuning step will appear in the display.

**Note**

If seek tuning is performed in 50 kHz steps, stations may be tuned in imprecisely. Tune in the stations with manual tuning or use seek tuning again.

## Setting the AM tuning step

The AM tuning step can be switched between 9 kHz, the preset step, and 10 kHz. When using the tuner in North, Central or South America, reset the tuning step from 9 kHz (531 – 1,602 kHz allowable) to 10 kHz (530 – 1,640 kHz allowable).

**1 Press AUDIO to select AM 9.**
Press **AUDIO** repeatedly until **AM 9** appears in the display.

**2 Press ◄ or ► to select the AM tuning step.**
Pressing ◄ or ► will switch the AM tuning step between 9 kHz and 10 kHz. The selected AM tuning step will appear in the display.

## Understanding built-in CD player error messages

When problems occur during CD play an error message may appear on the display. If an error message appears on the display refer to the table below to see what the problem is and the suggested method of correcting the problem. If the error cannot be corrected, contact your dealer or your nearest Pioneer Service Center.

| Message | Cause | Action |
|---|---|---|
| **ERROR-11, 12, 17, 30** | Dirty disc | Clean disc. |
| **ERROR-11, 12, 17, 30** | Scratched disc | Replace disc. |
| **ERROR-10, 11, 12, 17, 30, A0** | Electrical or mechanical | Turn the ignition ON and OFF, or switch to a different source, then back to the CD player. |
| **ERROR-44** | All tracks are skip tracks | Replace disc. |

## Turning the clock display on or off

You can turn the clock display on or off.

**● Press CLOCK to turn the clock display on or off.**

Each press of **CLOCK** turns the clock display on or off.

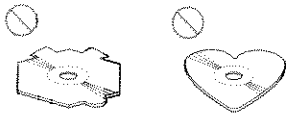
▪ The clock display disappears temporarily when you perform other operations, but the clock display appears again after 25 seconds.

## CD player and care

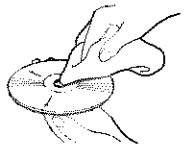
- Use only CDs that have the Compact Disc Digital Audio mark as show below.

COMPACT disc DIGITAL AUDIO

- Use only normal, round CDs. If you insert irregular, non-round, shaped CDs they may jam in the CD player or not play properly.



- Check all CDs for cracks, scratches or warped discs before playing. CDs that have cracks, scratches or are warped may not play properly. Do not use such discs.
- Avoid touching the recorded (non-printed side) surface when handling the disc.
- Store discs in their cases when not in use.
- Keep discs out of direct sunlight and do not expose the discs to high temperatures.
- Do not attach labels, write on or apply chemicals to the surface of the discs.
- To clean dirt from a CD, wipe the disc with a soft cloth outward from the center of the disc.



- If the heater is used in cold weather, moisture may form on components inside the CD player. Condensation may cause the CD player to not operate properly. If you think that condensation is a problem turn off the CD player for an hour or so to allow the CD player to dry out and wipe any damp discs with a soft cloth to remove the moisture.

- Road shocks may interrupt CD playback. ▣

## CD-R/CD-RW discs

- CD-R (CD-Recordable)/CD-RW (CD-Rewritable) discs recorded on CD-R/CD-RW units other than a music CD recorder may not play properly on this CD player.
- Music CD-R/CD-RW discs, even recorded on a music CD recorder, may not play properly on this CD player due to differing disc characteristics, scratches or dirt on the disc. Dirt or condensation on the lens inside this unit may also prevent playback.
- This unit conforms to the track skip function of the CD-R/CD-RW disc. The tracks containing the track skip information are skipped automatically.
- If you insert a CD-RW disc into this unit, time to playback will be longer than when you insert a conventional CD or CD-R disc.
- Read the precautions with CD-R/CD-RW discs before using them. ▣

# Specifications

## General

Rated power source ..... 14.4 V DC
(allowable voltage range:
10.5 – 14.4 V DC)
Grounding system ..... Negative type
Max. current consumption
..... 10.0 A
Dimensions (W × H × D):
DIN
Chassis ..... 178 × 50 × 157 mm
Nose ..... 188 × 58 × 19 mm
D
Chassis ..... 178 × 50 × 162 mm
Nose ..... 170 × 46 × 14 mm
Weight ..... 1.5 kg

## Audio

Continuous power output is 22 W per channel minimum into 4 ohms, both channels driven 50 to 15,000 Hz with no more than 5% THD.
Maximum power output ..... 50 W × 4
Load impedance ..... 4 Ω (4 – 8 Ω allowable)
Preout max output level/output impedance
..... 2.2 V/1 kΩ
Equalizer (3-Band Parametric Equalizer):
Low
Frequency ..... 40/80/100/160 Hz
Q Factor ..... 0.35/0.59/0.95/1.15 (+6 dB when boosted)
Gain ..... ±12dB
Mid
Frequency ..... 200/500/1k/2k Hz
Q Factor ..... 0.35/0.59/0.95/1.15 (+6 dB when boosted)
Gain ..... ±12dB
High
Frequency ..... 3.15k/8k/10k/12.5k Hz
Q Factor ..... 0.35/0.59/0.95/1.15 (+6 dB when boosted)
Gain ..... ±12dB
Loudness contour
Low ..... +3.5 dB (100 Hz), +3 dB (10 kHz)
Mid ..... +10 dB (100 Hz), +6.5 dB (10 kHz)
High ..... +11 dB (100 Hz), +11 dB (10 kHz)
(volume: –30 dB)

## CD player

System ..... Compact disc audio system
Usable discs ..... Compact disc
Signal format
Sampling frequency ..... 44.1 kHz
Number of quantization bits
..... 16 linear
Frequency characteristics ..... 5 – 20,000 Hz (± 1 dB)
Signal-to-noise ratio ..... 94 dB (1 kHz) (IEC-A network)
Dynamic range ..... 92 dB (1 kHz)
Number of channels ..... 2 (stereo)

## FM tuner

Frequency range ..... 87.5 – 108.0 MHz
Usable sensitivity ..... 8 dBf (0.7 μV/75 Ω, mono, S/N: 30 dB)
50 dB quieting sensitivity ..... 16 dBf (2.2 μV/75 Ω, mono)
Signal-to-noise ratio ..... 75 dB (IEC-A network)
Distortion ..... 0.3 % (at 65 dBf, 1 kHz, stereo)
0.1 % (at 65 dBf, 1 kHz, mono)
Frequency response ..... 30 – 15,000 Hz (± 3 dB)
Stereo separation ..... 45 dB (at 65 dBf, 1 kHz)

## AM tuner

Frequency range ..... 531 – 1,602 kHz (9 kHz)
530 – 1,640 kHz (10 kHz)
Usable sensitivity ..... 18 μV (S/N: 20 dB)
Signal-to-noise ratio ..... 65 dB (IEC-A network)

## Note

Specifications and the design are subject to possible modifications without notice due to improvements.

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